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FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. CONFIRMATION NO. 10/643,071 08/18/2003 10004024-2 4192 Paul Lum EXAMINER 7590 12/28/2004 AGILENT TECHNOLOGIES, INC. RODRIGUEZ, WILLIAM H Legal Department, DL429 ART UNIT PAPER NUMBER **Intellectual Property Administration** P.O. Box 7599 3746 Loveland, CO 80537-0599

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/643,071	LUM, PAUL
	Examiner	Art Unit
	William H. Rodriguez	3746
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet with	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3: after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) de - If NO period for reply is specified above, the maximum statuto - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a rejection. ays, a reply within the statutory minimum of thirty my period will apply and will expire SIX (6) MONT by statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed o	on <u>12 October 2004</u> .	
2a) This action is FINAL . 2b)	⊠ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4) ⊠ Claim(s) 2-5 and 7-14 is/are pending in 4a) Of the above claim(s) is/are v 5) ⊠ Claim(s) 2,4,5 and 7-14 is/are allowed. 6) ⊠ Claim(s) 3 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the E 10)☒ The drawing(s) filed on 12 October 2004 Applicant may not request that any objection Replacement drawing sheet(s) including the 11)☐ The oath or declaration is objected to by	$\frac{4}{2}$ is/are: a) \square accepted or b) \square ob n to the drawing(s) be held in abeyance correction is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	·	
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents.	cuments have been received. cuments have been received in Ap the priority documents have been r Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-	-948) Paper No(s)	mmary (PTO-413) Mail Date
Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date		ormal Patent Application (PTO-152) -·

DETAILED ACTION

This office action is in response to the amendment and remarks filed 10/12/04. Since the examiner has applied new grounds of rejection, this office action is being made non-final to afford the applicant the opportunity to respond to the new grounds of rejection.

Drawings

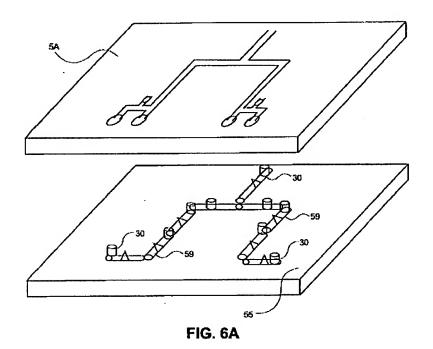
1. The drawings filed on 10/12/04 have been approved.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kamholz et al. (U.S. 6,415,821) in view of Sudor (U.S. 6,709,692).

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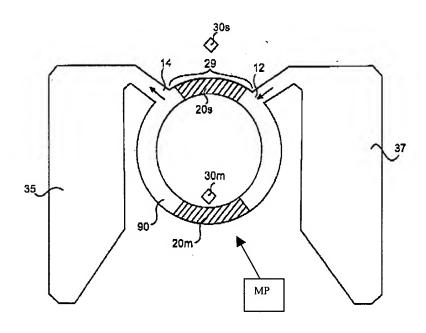


FIG.10

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Kamholz teaches a 5A, 55 cartridge comprising: a network of conduits 12, 14 and reservoirs 35, 37 within said cartridge, at least one micro-pump MP fluidly coupled to said network for transporting small volumes of biological fluid, said pump comprising: a rotatable portion having a magnetic core 30m and configured to be rotatable by alternating inductive magnetic fields to urge fluid through said network. Kamholz does not teach that the cartridge is disposable. However, it was well known in the art at the time the invention was made to use disposable cartridges (for biological fluid handleding devices) to prevent the transfer of infectious diseases from one patient to another through a contaminated cartridge. Further, Kamholz does teach that the rotatable portion has a hydrophobic surface. However, Sudor teaches that the binding of valuable material (i.e., proteins, cells, platelets, etc) to surfaces of blood handeling devices is of major concern for biological fluid handeling devices because it can result in the loss of valuable material and variations in the amount of the dispensed fluid to the patient. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have made the rotatable portion of Kamholtz's micro-pump of a hydrophobic material to prevent binding of valuable organic material to the rotatable portion of the pump in order to ensure that the patient receives all the valuable organic material he/she needs. Also, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used disposable cartridges for Kamholz's device when handling biological fluids to prevent the transfer of infectious diseases from one patient to another through a contaminated cartridge. See particularly abstract, column 9 lines 25-37, Figures 6A, 10, column 1 lines 22-24 of Kamholz; and column 1 lines 35-41 of Sudor.

Note: With regards to the intended use recitation "that operates in conjunction with a point-of-care analytical device", a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In the instant case, the **Kamholz-Sudor** device could be used in conjunction with point-of-care analytical device. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Allowable Subject Matter

4. Previously objected claims 2 and 8 have been re-written in independent form. Thus, claims 2, 8 and its dependent claims are allowed.

Previously objected claim 10, has been amended to overcome the rejection under 35 U.S.C. 112, second paragraph. Thus, claim 10 and its dependent claim are allowed.

The indicated allowability of claim 3 is withdrawn in view of the newly discovered reference(s) to **Sudor (U.S. 6,709692)**. See rejection above.

Response to Arguments

5. Applicant's arguments with respect to claim 3 have been considered but are moot in view of the new ground(s) of rejection.

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Examiner would favorably consider the case in condition for allowance if the following

limitation is added to claim 3, wherein said rotatable portion comprises a microscopic paddle

wheel having a hydrophobic surface.

Contact information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to William H. Rodriguez whose telephone number is 571-272-4831.

The examiner can normally be reached on Monday-Friday 7:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cheryl J Tyler can be reached on 571-272-4834. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William H. Rodriguez

Examiner

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